"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ACC NR: AP6034787

Four energy levels instead of two were obtained. The splitting follows from anisotropy of one-center acceptor functions. The simplified expressions for the energy and wave functions, obtained by averaging directions of quantities determining energy and wave functions, were also given. The author expressed her gratitude to Professor M. Suffczynski for continued interest and encouragement during all stages of the work, to Dr. J. Mycielski for suggesting the problem and for many valuable remarks and discussions, and to W. Gorzkowski for helping to clarify the group theory consideration. Orig. art. has: 12 formulas. [Based on author's abstract]

DR]

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 002/ OTH REF: 009/

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ACC NR: AP6034788 SOURCE CODE: PO/0045/66/030/002/0277/0282

AUTHOR: Kaczmarek, E.; Trylski, J.

ORG: [Kaczmarek] Institute of Physics, Polish Academy of Sciences, Warsaw (Instytut Fizyki PAN); [Trylski] Institute of Theoretical Physics, Warsaw University, Warsaw (Instytut Fizyki Teoretycznej, Uniwersytet Warszawski)

TITLE: Two-center acceptor states in germanium and silicon. II. Two-center integrals

SOURCE: Acta physica polonica, v. 30, no. 2, 1966, 277-282

TOPIC TAGS: germanium, silicon, acceptor, two center acceptor state, crystal two center integral, Schechter wave function, Coulomb potential matrix element

ABSTRACT: The matrix elements of the Coulomb potential between the Schechter wave functions and the overlap integrals that are necessary to find the two-center acceptor states in germanium and silicon crystals were calculated. Orig. art. has: 1 figure and 8 formulas. [Based on authors' abstract] [DR]

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 002/ OTH REF: 001/

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ACC NR: AP6034789 SOURCE CODE: PO/0045/66/030/002/0283/0292

AUTHOR: Kaczmarek, E.; Myszkowski, A.; Trylski, J.

ORG: [Kaczmarek, Myszkowski] Institute of Physics, Polish Academy of Sciences, Warsaw (Instytut Fizyki PAN); [Trylski] Institute of Theoretical Physics, Warsaw University, Warsaw (Instytut Fizyki Teoretycznej, Uniwersytet Warszawski)

TITLE: Two-center acceptor states in germanium and silicon. III. Numerical results

SOURCE: Acta physica polonica, v. 30, no. 2, 1966, 283-292

TOPIC TAGS: germanium, silicon, acceptor, acceptor ground state, acceptor two center state, crystal hole energy level

ABSTRACT: The energy levels of holes in two-center acceptor states were calculated for germanium and silicon crystals. It is found that one can probably use spherical eigenfunctions of the acceptor ground state in calculating hopping probability only in effects dominated by acceptor pairs of large separations and large energy difference. In other cases it is necessary to use more complex

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ACC NR: AP6034789

7

one-center eigenfunctions. Orig. art. has: 10 figures, 2 tables, and 2 formulas. [Based on authors' abstract] [DR]

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 002/

Card 2/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, F.

POLAND/Electricity - Dielectrics G-2 POLAND

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10932

Author : Kaczmarek, F., Kryczkowski J.
Inst : Institute of Physics, Polish Academy of Science, Poznan.
Title : The Dependence of a Dielectric Permittivity of $BaTiO_3$ on the Character of the Alternating Electric Field Below the Curie Point.

Orig Pub : Bull. Acad. polon. sci., 1957, cl. 3, 5, No 7, 737-741

Abstract : A study was made of oscillograms of the dependence of the dielectric permittivity (ε) of ceramics and single crystals of $BaTiO_3$ and ceramics of $(Ba, Sr)TiO_3$ on the time when an electric field of varying time dependence is applied to the specimen. When the frequency of the field is 250 cycles, with a buildup rate of up to 500 volts per second within 0.8 milliseconds and with a decay within 3.2 milliseconds, then as the field increases the permittivity increases and reaches a maximum earlier than the field maximum is reached and when the field decreases, the permittivity drops. A rapid reduction field causes an increase in the permittivity. When the sinusoi-

Card : 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

PIEKARA, A.; KACZMAREK, F.; DROBNIK, A.; GRAJA, A.; RAMISZOWNA, T.

Lasers of the Poznan center. Postepy fizyki 15 no.4:451-457 '64.

1. Department of Experimental Physics, A. Mickiewicz University, Poznan, and Department of Dielectrics, Institute of Physics, Polish Academy of Sciences, Poznan.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

AUTHOR: Piekara, A.; Kaczmarek, R.

SOURCE: Acta physica polonica, v. 26, no. 1, 1964, 85-93

[illegible] vibration, transducer [illegible]

transverse and longitudinal vibrations [illegible]

[illegible]

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

single crystals do not exhibit piezoelectric vibrations [illegible] polarization voltage. [illegible]

in the multidomain crystal when saturation was achieved in a field [illegible]

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

L 17373-65 EWT(m)/EPF(n)-2/EPR/EWP(t)/EPF(k) [illegible]

TOPIC TAGS: laser, ruby laser, helium neon laser, nonlinear optics, excitation threshold

[illegible]

of 1962, the Poznan scientific center has been engaged in experimental studies on lasers. The purpose of these studies was to design gaseous and ruby lasers and to apply them to the investigation of nonlinear optical and [illegible]

[illegible]

Card 1/[illegible]

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ACCESSION NR

[illegible] obtained with the Swiss made [illegible]
[illegible]
mirrors. The purpose of further work will be to design [illegible]
of high output powers suitable for the investigation of nonlinear
optical and electro optical effects in liquids and crystals.
[illegible]

ASSOCIATION: Katedra fizyki doświadczalnej Uniwersytet [illegible]
experimental physics department, Mickiewicz University [illegible]

SUBMITTED: [illegible] ENCL: [illegible]

SUB CODE: [illegible]

Card 3/5

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, F.: MALEK B.

Santonin from domestic Artemisia maritima. Acta Poloniae pharm. 12 no.3:173-177 '53.

1. Panstwowy Instytut Naukowy Lecznicszych Surowcow Roslinnych w Poznaniu, Dyrektor: doc.dr B. Borkowski.
(ANTHELMINTICS, preparation of
santonin, from Artemisia maritima)
(PLANTS,
Artemisia maritima, prep. of santonin)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

Mutual solubilities of components for the system: coriander oil-water-linaloöl with respect to temperature. Kazimierz Kapitańczyk and Feliks Kaczmarek (Eng. School, Poznan, Poland). *Farmacja Polska* 10, 6 81(1954).—Gravimetric method. 200 g. of an aq. soln. of coriander oil was brought to room temp. and shaken 3 times with Et_2O in 30-ml. portions, the combined extr. dried with $CaCl_2$, and filtered into a weighed 150-ml. flask, ether wash of the filter and $CaCl_2$ being added to the filtrate. Et_2O was removed at 40°, the flask contents were dried 2 hrs. and weighed. The oil content in satd. aq. soln. was calcd. for the given temp. This method is not satisfactory. Volumetric method: 300 g. of satd. aq. coriander oil soln. and 100 g. NaCl were distd. Distn. was carried out for 2 hrs., and after 15 min. the collected oil was read in a calibrated tube and recalcd. to 100 g. of aq. soln. Soly. rate for water in oil and in linaloöl was detd. by the method of Fischer (*C.A.* 29, 6532). A blank run on the coriander oil gave an insignificant result. About 5 g. of coriander oil, or linaloöl, was mixed with 10 ml. of water, brought to the required temp., shaken 3 times vigorously in the thermostat, and left 24 hrs. to permit complete sepn. of the 2 mutually satd. layers. One to two g. of the oil or the linaloöl layer was weighed out and 10 ml. anhyd. MeOH added as quickly as possible and the resulting soln. of oil in MeOH titrated with Fischer reagent with $CaCl_2$ protection from air moisture. At the same time a control of 0.1-0.2 g. of H_2O in 10 ml. MeOH was used from which the water in the sample was calcd. For the range 0 to 80°, mutual solubilities of the above were poor. Soly. curves for oil and for linaloöl were almost parallel, their solubilities in H_2O decreasing with increase in temp. Soly. of coriander oil decreased from 0.205% at 4.5° to 0.000% at 71°. Between 49 and [illegible] the percentage oil in the satd. aq. phase varied from [illegible] to 0.008%. Optimal cooling temp. for the coriander oil distillate was 40–50°. The resulting soly. curve for coriander in H_2O differs from that given by Obukhov and Kondratskii (*Tekhnologia efirnomaslichnogo preizvodstva* 1940, 226), according to which, for a temp. rise from 15 to 27°, the soly. of oil in H_2O increased, and then with further temp. rise it decreased. Results obtained for domestic coriander oil indicate that its soly. in H_2O decreases continuously with temp. increase for the range investigated (4.5 to 71°). In the temp. range 71 to 78° satn. of oil and of linaloöl with H_2O changes very slightly, and shows linear increase with temp., contrary to the case of oil or linaloöl soly. in H_2O. The H_2O content in the satd. coriander oil layer increased from 1.10% at [illegible] to 1.31% at 75°, and for linaloöl it varied from 2.71% at [illegible] to 3.01% at 78°. The systems coriander oil-H_2O and linaloöl-H_2O should be considered as limited soly. systems in which the soly. of one component increases with temp. increase while the other decreases. Clayton F. Holoway

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

ADAMANIS, Fr.; DEBSKA, W.; KACZMAREK, F.

Polish Ricinus as a source of pharmacological castor oil. Farm. polska 10 no.1:9-12 Ja '54.

1. Panstwowy Institut Naukowy Leczniczych Surowcow Roslinnych w Poznaniu. Dyrektor: prof. Dr Fr.Adamanis.
(CASTOR OIL, preparation of,
*from Ricinus cultivated in Poland)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

F. KACZMAREK, B.

F. KACZMAREK, B. MALEK: Santonine extracted from indigenous Artemisia maritima L.

SO: Acta Poloniae Pharmaceutica (Pharmaceuticals), Third quarter 1955.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

Kaczmarek F.

2

665.1 : 635.751.004.8

Adamowis F., Kaczmarek F. Coriander Flakes as Fat and Protein Containing Raw Material.

„Wyparki kolendrowe jako surowiec tłuszczowo-białkowy". Przemysł Spożywczy. No. 10, 1955, pp. 411—413, 4 tabs.

The fruits of the small-seeded chaffy coriander contain, in addition to considerable quantities of oil (1.0 — 1.4 per cent), a good deal of fat (30 per cent of dry mass). The fat and protein content is in the chaff smaller than in fruits not subjected to the oil distillation process. A method of hulling with a view to separating the seeds from the pericarp, and a method for pressing oil from separate coriander seeds; the optimum water content of seeds destined for pressing lies at 15 — 16 per cent. Coriander seeds yield 13 — 15 per cent of pressed oil. The authors submit a method for decolorizing the crude oil and here quote determinations of physico-chemical properties. An analysis of the fodder value of the pericarps and the oil cake remaining after pressing the oil from the seeds.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND/Chemical Technology. Chemical Products and Their Uses. Part III. Fats and Oils. Waxes. Soaps. Detergents. Flotation Agents. H

Abs Jour : Ref Zhur-Khimiya, No 15, 1958, 51672

Author : Adamanis, F., Kaczmarek, F.
Inst : -
Title : Coriander - Raw Material for the Preparation of Fats and Proteins.

Orig Pub : Przem. spozywczy, 1955, 9, No 10, 411-414

Abstract : No abstract.

Card : 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, F.

Technology of medicinal castor oil. Acta Poloniae pharm. 11 Suppl.: 98-100 1955.

1. Panstwowy Instytut Naukowy Leczniczych Surowcow Roslinnych, Poznan.
(CASTOR OIL, preparation of)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

DEBICKA, K.; KACZMAREK, F.

Evaluation of tinctura Chelidonii in Polish pharmacopeia 3rd edition. Farm.polska 11 no.6:125-128 June '55. (MLRA 8:9)

1. Panstwowy Instytut Naukowy Leczniczych Surowcow Roslinnych w Poznaniu, Dyrektor doc. dr B. Borkowski.
(PLANTS,
Chelidonium tincture, evaluation in Polish pharmacopeia 3rd edition)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND / Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. H-17

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9317.

Author : Kaczmarek, F.
Inst : ~~Not given.~~
Title : Technology of Obtaining Oil From Chenopodium Ambrosioides.

Orig Pub: Dissert. pharmac. PAN, 1956, 7, 227-236.

Abstract: Investigation of the effect of drying temperature of Chenopodium ambrosioides herb on the yield of oil shows a greater loss when the temperature is increased, while the higher yield is obtained from the fresh herb and the next highest from the herb dried in an air drier. When the herb is dried in the field, up to 25% of the oil is lost; in dry-

Card 1/2

171

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND/Chemical Technology - Chemical Products and Their Application. Synthetic and Natural Medicinal Substances. Galelicals and Medicinal Forms. H.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 36015.

Author : Adamczewski, B., Kaczmarek, F., Walicka, A.

Inst : Institute of Medicinal Plants.

Title : Thermal Disinsection of Etherreal Oil, Alkaloid and Glucoside Raw Materials.

Orig Pub : Biul. Inst. rosl. leczn., 1958, 4, No 2, 153-160.

Abstract : Investigations indicated that heating in the thermostat at a temperature of 60° for 2 hours did not change the alkaloids' content in the roots and leaves of belladonna, stramonium and henbane or change the biological titration standard of purple and woolly digitalis. The heating, in the same conditions, of ethereal oil raw

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND / Chemical Technology. Chemical Products and Their Applications. Pharmaceuticals. Vitamins. Antibiotics. H

Abs Jour: Ref Zhur-Khimiya, 1959, No 4, 12813.

Author : Debicka, Krystyna; Kaczmarek, Felika.
Inst : Not given.
Title : Experiment to Obtain a Nonhygroscopic Preparation of Belladonna.

Orig Pub: Biul. Inst. rosl. leczn., 1957, 3, No 2, 93-106.

Abstract: Belladonna extraction (0.746% alkaloids) by various methods (yield by percolation methods 94.1-99.27%, and by maceration method 85.9%) gives strongly hygroscopic dry extracts with a relative moisture of about 76% and a temperature of about 20°, which are transformed in 18.5-118.5 hours into a viscous resin. Extracts which were diluted with saccharose, milky sugar or starch, were also hygroscopic.

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND/Chemical Technology Pharmaceuticals. Vitamins. Antibiotics. H

Abs Jour: Ref Zhur-Khim., No 24, 1958, 82672.

Author : Kaczmarek F.
Inst :
Title : The Colorimetric Determination of Spartein in Brown Willow Osier (Sarotharmis Scoparius L. Wimm) With Reinecke Salt.

Orig Pub: Biul. Inst. Rosl. leczn., 1957, 3, No 4, 275-284.

Abstract: The colorimetric method for the determination of spartein (I) is described. The extraction is carried out with 2% sulfuric acid, using the percolation method. The precipitation of the salt of I is influenced not only by the pH but also by the temperature (maximum 0° - 10°C) and the volume of the

Card : 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr.

Chemical research on some species of Lobelia. Biuletyn Ziel leczn 7 no.2:89-156 Je '61.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr.; KOWALEWSKI, Zdzislaw, dr.; LUTOMSKI, Jerzy, dr.; WROCINSKI, Tadeusz, dr.

On the preparing process and the action of diuretic preparation from dry leaf-bases of Allium Cepa L. Biuletyn Ziel leczn 7 no.2:157-166 Je '61.

1. Instytut Przemyslu Zielarskiego, Poznan.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

CZYSZEWSKA, St.; KACZMAREK, F. dr.

A critical evaluation of a monograph on Tinctura sapenariae prepared for the Polish Pharmacopocia IV. Inst przem ziel biul 7 no.3:247-254. S '61.

1. Zaklad Fitochemii, Instytut Przemyslu Zielarskiego, Poznan. Kierownik Zakladu: dr. F. Kaczmarek.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

SLIWA, Zdzislaw; KOZAL, Edmund; KACZMAREK, Feliks

The influence of the feeding system on the results of merino sheep mating in Poland. Postepy nauk roln 8 no.6:61-66 '61.

1. Katedra Szczegolowej Hodowli Zwierzat Wyzszej Szkoly Rolniczej Poznan Kierownik: Alexandrowicz, Stefan, prof., dr.

(Poland—Merino sheep) (Feeding and feeding stuffs)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks; LUTOMSKI, Jerzy, dr.

Alkaloid analysis of Vinca minor L. Inst przem ziel Biul 8 no.1/2:1-11 Mr-Je '62.

1. Instytut Przemyslu Zielarskiego, Zaklad Metodyki i Ekonomiki, Poznan. Kierownik: dr J.Lutomski.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks; LUTOMSKI, Jerzy, dr; WROCINSKI, Tadeusz, dr

Studies on the effect of vincamin, isovincamin, as well as the alkaloid and nonalkaloid fractions of Vinca minor L. on blodd pressure. Inst przem ziel Biul 8 no.1/2:12-23 Mr-Je '62.

1. Zaklad Metodyki i Ekonomiki Instytutu Przemyslu Zielarskiego, Poznan, Kierownik: dr J.Lutomski, i Zaklad Farmakologii Instytutu Przemyslu Zielarskiego, Poznan, kierownik: dr T.Wrocinski.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr; OSTROWSKA, Barbara

Isolation and identification of flavones from fruits of the common parsley (Petroselinum sativum Hoffm.). Inst przem ziel Biul 8 no.3:98-110 S '62.

1. Zaklad Technologii, Instytut Przemyslu Zierlarskiego, Poznan. Kierownik: dr P.Zurawski.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, F.

"Pharmaceutical manual" by [Prof.] H.Kaiser. 5th ed. Reviewed by F.Kaczmarek. Inst przem ziel Biul 8 no.1/2:78-79 Mr-Je '62.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr; OSTROWSKA, Barbara; SZPUNAR, Krystyna

Spasmolytic and diuretic activity of the more important components of the fruits of common parsley (Petroselinum sativum Hoffm.) Inst przem ziel Biul 8 no.3:111-117 S '62.

1. Zaklad Technologii, Instytut Przemyslu Zielarskiego, Poznan. Kiernownik: dr P.Zurawski, i Zaklad Farmakologii, Instytut Przemyslu Zielarskiego, Poznan. Kierownik: dr. T.Wrocinski.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr; RUTKOWSKA, Urszula; WOJSA, Kazimiera

Quantitative polarographic determination of escin and its sodium salt. Inst przem ziel Biul 8 no.4:156-161 D '62.

1. Zaklad Analityczno-Kontrolny, Instytut Przemyslu Zielarskiego, Poznan. Kierownik: dr. J. Czlonkowska.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr; RASZEJA, Wanda

Preliminary chemical studies on Lotus tetragonolobus L. Inst przem ziel Biul 9 no. 3:111-114 S '63.

1. Zaklad Fitochemii, Instytut Przemyslu Zielarskiego, Poznan. Kierownik Zakladu: dr. F. Kaczmarek.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

CZYSZEWSKA, Stefania; KACZMAREK, Feliks; SZPUNAR, Krystyna

Action of Herba herniariae on the nonstriated muscle of the small intestine and diuresis. Inst przem ziel Biul 9 no. 3: 121-135 S '63.

1. Zaklad Fitochemii i Zaklad Farmakologii, Instytut Przemyslu Zielarskiego, Poznan. Kierownik Zakladu Fitochemii: dr F. Kaczmarek. Kierownik Zakladu Farmakologii: dr T. Wrocinski.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Feliks, dr

The Winkler Centernarium; scientific pharmaceutical symposium in Budapest, 1963. Inst przem ziel Biul 9 no. 3:157-160 S '63.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

L 29313-66 IJP(c) WW/GG
ACC NR: AP6007878 SOURCE CODE: PO/0047/66/017/001/0043/0065

AUTHOR: Kaczmarek, Franciszek

ORG: Adam Mickiewicz University, Experimental Physics Department, Poznan (Uniwersytet Adama Mickiewicza, Katedra Fizyki Doswiadczalnej)

56
B

TITLE: Electron nuclear double resonance (ENDOR)

SOURCE: Postepy fizyki, v. 17, no. 1, 1966, 43-65

TOPIC TAGS: paramagnetic material, paramagnetic cooling, electron paramagnetic resonance, electron paramagnetic spectrometer, resonance line, line broadening, wave function, ~~sensitivity, increase~~, hyperfine structure, ELECTRON NUCLEAR DOUBLE RESONANCE

ABSTRACT: The electron nuclear double resonance technique (ENDOR), developed by G. Feher (Phys. Rev., 103, 499, 1956), is discussed. Applications of this technique in high-resolution research on the hyperfine structure of electron paramagnetic resonance (EPR) lines in colored alkali halides and on the wave function in semiconductors are described. The microwave spectrometers employed in observing the ENDOR signals, and the procedure of cooling the resonant cavity to a liquid helium temperature are described in detail. The conclusion is drawn that the structure of resonance lines with nonuniform broadening can be studied with greater accuracy by the ENDOR technique than by the EPR technique, that the data on the hyperfine structure of resonance lines make it possible to calculate the square of the wave

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

L 29313-66

ACC NR: AP6007878

function at the place where the nucleus, which interacts with the electron, is located, and that owing to the very high sensitivity of the ENDOR technique the nucleus-electron interactions can be studied also in cases where the nucleus is located at a distance from the electron. Orig. art. has: 17 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 016

Card 2/2 BK

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

L 21105-66 EWT/EEC(k)-2/T/EWP(k)/EWA(h) LJP(c) WW

ACC NR: AP6007880 SOURCE CODE: PO/0047/66/017/001/0071/0079

AUTHOR: Kaczmarek, F.; Dymaczewski, H.; Blaszczak, Z.

ORG: Department of Experimental Physics of the University im. A. Mickiewicz, Poznan (Katedra fizyki doswiadczalnej uniwersytetu)

60

B

TITLE: Gaseous red laser 25,44,55

SOURCE: Postepy fizyki, v. 17, no. 1, 1966, 71-79

TOPIC TAGS: gaseous state laser, laser application, red laser, interferometer

ABSTRACT: A short review of the operating principle of the visible laser (λ = 6328 Å) and its various applications is given. Various red lasers built at the Laser Laboratory in Poznan are described in detail. The paper also contains certain measurements of the output power of the visible laser as a function of the total He and Ne pressure, He to Ne ratio and transmission coefficient of the mirror. Maximum output power obtained from the red laser was approximately 7 mw; the mirrors being nonsymmetrical, one of total reflection (R = 99.4%), the other possessing 1.9% transmission. Application of the red laser in interferometry is illustrated by photographs of interference fringes. The authors thank Professor Dr. A. Piekarze for his interest in this work and his valuable remarks, A. Drobnik, A. Graja, and T. Ramiszowna for taking part in this work, and A. Planerowi, M. Kowalskiej, and C. Kuflowi for preparation of this laser elements. Orig. art. has: 10 figures and 1 table. [Based on authors' abstract.] [NT]

Card 1/2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

L 21105-66

ACC NR: AP6007880

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001/

Card 2/2 dda

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND

KACZMAREK, Franciszek

Dept. of Experimental Physics, Mickiewicz University (Uniwersytet Adama Mickiewicza, Katedra Fizyki Doswiadczalnej), Poznan

Cracow, Postepy fizyki, No 1 [Jan/Feb] 1966, pp 43-65

"Electron nuclear double resonance."

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POLAND

KACZMAREK, F.; MENACHEMSKI, E.; BLASZCZAK, Z.

Dept. of Experimental Physics, Michiewicz University (Katedra Fizyki Doświadczalnej Uniwersytetu im. A. Mickiewicza), Poznan (for all)

Cracow, Postępy Fizyki, No 1 [Jan/Feb] 1966, pp 71-79

"Gaseous red laser."

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

P/512/62/000/005/002/006
E032/E414

AUTHOR: Kaczmarek, Franciszek

TITLE: Changes in the permittivity of $BaTiO_3$ ferroelectrics in a pulsed electric field

SOURCE: Poznan. Uniwersytet. Zeszyty naukowe. no.39. Matematyka, fizyka, chemia. no.5. 1962. 33-80

TEXT: The author reports a systematic study of delayed effects which occur over time periods of the order of milliseconds. A resonance method in which the capacitor filled with the dielectric formed a part of a resonating circuit was employed, and the output of the measuring apparatus was recorded on a CRO screen. Provision was made for the application of a constant polarising voltage. The measurements were carried out below and above the Curie point. The permittivity of the dielectric was measured as a function of time for different values of the following parameters: (1) electric field strength, (2) rate of increase of the electric field in the ferroelectric and (3) time for which the field was applied (pulse length in the case of rectangular pulses). Measurements were also made of

Card 1/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

dielectric losses as a function of the strength and duration of the electric field. The substances investigated were polycrystalline $BaTiO_3$, large single crystals of $BaTiO_3$ and single crystals of Seignette's salt. Below the Curie point a step change in the static electric field gives rise to an initial rapid change in the permittivity. This is followed by a reduction to a value which may be higher or lower than the initial permittivity. The relative change in the permittivity for fields below 1 kV/cm is directly proportional to the field strength. Above 10 kV/cm, the maximum relative change in the permittivity exhibits a clear saturation effect. The rate of change of permittivity of $BaTiO_3$ when the field is switched on or off depends on the field strength. Above 10 kV/cm, the final value of the permittivity is lower than the initial value after a time interval of the order of a few milliseconds. Below 1 kV/cm, the rate of increase in the permittivity is roughly a linear function of the rate of increase in the potential difference across the ferroelectric capacitor. Above the Curie point, a step increase in the electric field gives rise to a reduction in the permittivity, and a return to the original value of the field

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

Changes in the permittivity ... P/512/62/000/005/002/006
E032/E414

leads to a return to the initial value of the permittivity (after a time of the order of a few minutes). The effect of the electric field on the permittivity diminishes with increasing temperature. In Seignette's salt, a step increase in the electric field gives rise to a reduction in the permittivity, and delayed effects are observed just as in the case of $BaTiO_3$. The changes in the permittivity of $BaTiO_3$ - type ferroelectrics below the Curie point, which are observed after a step increase in the electric field, are probably due to (1) orientation of domains, (2) changes in the mobility of walls between the domains and (3) changes in the ionic polarizability due to the deformation of the elementary cell of $BaTiO_3$. The changes in the permittivity in a static field, which are observed above the Curie point, can be explained in terms of the theory of anisotropic ionic polarizability developed by A. Piekara (Bull. Ac. Pol. Sci., Cl.III, 2. 1954, 127). There are 94 figures and 1 table.

ASSOCIATION: Katedra fizyki doświadczalnej (Department of Experimental Physics)

Card 3/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Henryk

The local and cooperative metal industry. Przegl mech 21 no.9/10:284-286. 10-25 My '62.

1. Wojewodzki Zarzad Spoldzielni Pracy, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jadwiga, dr.

Schendyla furcidens nov. sp., a new speices of Schendyla from Poland. Sciences biol Biul Poznan no.3:99-104 '62.

1. Institut für Allgemaine Zoologie, Adam Mickiewicz Universität, Poznan.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, dr.; DALLOS, Kalman [translator]

Method for the selection of cutting speed and the feed in high-precision turning. Gepgyartastechn 2 no.7:259-260 Jl '62.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

DUSZYNSKA, Emilia; KACZMAREK, Jan

Possibilities of increasing the jointing durability of contactors. Wiad elektrotechn 31 no.7:155-156 Jl '63.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

S/276/63/000/002/009/052
A052/A126

AUTHOR: Kaczmarek, Jan

TITLE: Surface finish after electric spark machining

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2, 1963, 51, abstract 2B205 (Mechanik, v.34, no. 9, 1961, 487, Polish)

TEXT: The results of an investigation of the surface finish produced on the EDA35 electric spark machine are reported. The machine has 6 machining processes. The feeding is realized from an electric RC pulse generator. The results of the investigations in question both for individual pulses and for the normal operation of the machine are presented graphically. It is pointed out that for the whole range of processes the size of microroughness is larger in the case of the action of individual pulses. It is reported that further investigations will aim at finding out the effect of the size of the machined surface and the frequency of electric pulse repetition on the surface finish. There are 2 figures.

V. Royter

(Abstracter's note: Complete translation.)

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J

Kaczmarek J.

Biernawski W., Prof. Eng. and Kaczmarek J., Eng. "A Plea for the Modernisation of Workshop Calculating." (O unowoczesnientie kalkulacji warsztatowej). Przeglad Mechaniczny, No. 7-8-9, 1949, pp. 229-233, 5 figs.

The present state of workshop calculation. The necessity of working out the fundamentals of modern calculation. Guiding principles of production economy. Technique of preliminary calculation. Economical cost calculation of machining by cutting. Practical endurance period of cutting edge durability. Cutting resistance and cutting efficiacy per hour, of a tool, as a function of the unit actual length of the cutting edge. The necessity of confirming the efficacy coefficient of cutting tools with respect to load and to r. p. m. The role of modern nomography in workshop calculation and examples of its application.

SO: Polish Technical Abstracts - No. 2, 1951

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

1099 621.9.014.5

Kaczmarek J. Rationalisation of Technical Processes as a Factor Accelerating the Implementation of the Six-Year Plan

„Racjonalizacja przebiegów technologicznych przyśpiesza wykonanie planu 6-letniego". Przegląd Techniczny. No. 4, 1951, pp. 149—152, 4 figs.

Definition of the technological procedure in rapidity cutting. Increase in output by reducing the time of machine or non-machine process, or of both. Advantages of rapidity methods. Instances of achievements in the production of mine trucks and shafts for electric motors. The role of rationalisers and of scientific research institutes in modernising and raising the standard of our industries.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

A Simple Method of Measuring Static Stiffness of Lathe-work-Tool Systems

Source - PRZEGLAD MECHANICZNY (Mechanical Engineering Review) Poland
Vol. XII, No. 10 October 1953, pp. 339 - 370

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

J. KACZMAREK; A. BULAT

"Tables of suggested conditions for machine manufacturing." p. 95
(Mechanik, Vol 25 No 2 Feb 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POL

621.94.1.01 : 620.178.6

3144

Kuczmarek J., Żurawski Z. Single-Component Static Rigidity of Machine Tools.

„Jednoskładowa sztywność statyczna obrabiarek". Przegląd Mechaniczny, No. 12, 1953, pp. 394—398, 11 figs., 1 tab.

The authors deal with the method of unit measurement of static rigidity in lathes, and with the prospects of using this method in practice for checking the rigidity of lathes. Correlation between accuracy in machining and rigidity of the machine-work piece-tool system. Static rigidity; dynamic rigidity; principle of measuring single-component static rigidity. Results of measuring the rigidity of lathes.

See also: 3080, 3081, 3088, 3089, 3091, 3093, 3098, 3099, 3100, 3104, 3106, 3107, 3108, 3110, 3113, 3160, 3183, 3184, 3185, 3189, 3209, 3216, 3221, 3222.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POL.

3143 621.9.014.5 : 621.9.02.014

Kaczmarek J. High-Speed Cutting, and Cutting by Means of Kolesow Type Tools.

„Skrawanie szybkościowe i skrawanie narzędziami Kołesowa". Przegląd Techniczny. No. 2, 1934, pp. 94—98, 8 figs.

Leading features of high-performance machining: — close combination and utilisation of the latest advances in practice and science; raising the technical qualifications of workers; composite utilization of machine tool reserves; improvement in work and production organisation. Various forms of high-performance machining: — high-speed cutting, and machining at high feed rates (as initiated by Kolesow). Attempts to determine the economical range of applicability of cutting at high feed rates and of the high-speed machining process.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

Selecting conditions in finishing by means of a long-stroke Kolesov grinder. (To be contd.) p. 248. (MECHANIK, Warszawa, Vol. 27, no. 7, July 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, Jun. 1955, Uncl.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

2

POLAND

12052* High-Speed Machining and Cutting With Rotary-Type Machine Tools. Skrawanie szybkościowe i skrawanie narzędziami typu Kołowrót. (Polish.) Jan Kacymarek. Przegląd Techniczny, v. 78, no. 8, Mar. 195[illegible]

Calculation of factors in cutting angle, depth and rapidity of feed, [illegible] materials being machined, heat generated, machining time, and forces. Graphs, diagrams, photograph. 8 ref.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

KACZMAREK, J.

"Milling the Edges of Cutters With a High Inclination Angle", p. 95, (MECHANIK, Vol. 27, No. 3, Mar. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

"Principles of Designing a Central Sharpening Section in a Factory", p. 203, (MECHANIK, Vol. 27, No. 6, June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

"Selecting Conditions in Finishing by Means of a Long-Stroke Kolesov Grinder", (Conclusion) p. 295, (MECHANIK, Vol. 27, No. 8, Aug. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

Iron for handle bars of lathe cutters. p.316.
MECHANIK (Stowarzyszenie Inzyniernow i Technikow Mechanikow Polskich) Warszawa
Vol. 28, no. 8, Aug. 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

The Institute of Machine Tools and Metalworking at the outset of the 5-Year Plan. p. 121. (Mechanik, Vol. 29, No. 4, Apr 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

KACZMAREK, J. A new rendition of a series of lathing monograms. p. 281. Vol. 29, No. 7, July 1956. MECHANIK. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, J.

The Institute of Metalworking in the year 1959: 12 years after its foundation and after 10 years of activities in Krakow. p. 389

MECHANIK Warszawa, Poland Vol. 32, no. 8, Aug. 1959

Monthly List of East European Accession, (EEAI) LC, Vol. 9 No. 2, Feb. 1960
Unlc.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

22509
P/035/61/000/013/001/002
D203/D305

1.1110

AUTHOR: Kaczmarek, Jan, Doctor of Engineering

TITLE: Some criteria for technological assessment of spark erosion machines

PERIODICAL: Przegląd mechaniczny, no. 13, 1961, 381-387

TEXT: Any machining process dependent on removal of material can be assessed by the following criteria: 1) Output measured by the area or depth of machined material per unit time; 2) Tool wear (in terms of working time to reach a specified wear); 3) Accuracy in terms of minimum tolerance obtainable; 4) Surface quality defined by geometric factors (roughness, waviness etc.) and physico-mechanical factors (micro-hardness, surface structure, depth of plastic deformation, nature of surface stresses); 5) Energy efficiency of the process or specific efficiency in terms of machined volume of material per unit of work input. To describe the range and capacity of a given machine tool, other criteria derived from these can be formulated. The most representative electro-erosion machine is the spark machine of the RC type. Spark discharge

Card 1/7

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

22509
P/035/61/000/013/001/002
D203/D305

Some criteria...

begins when the condenser reaches a limiting voltage U_{gr}, the value of which depends on many factors, but mainly on the electrode (tool) and the size of the spark gap. For the purpose of analysis $U_c = U_{gr}$ is assumed constant. Then from

$$u_c = U_c(1 - e^{-\frac{t_c}{RC}}) \quad (1)$$

$$a = e^{-\frac{t_c}{RC}} \quad (2)$$

is also constant. Thus the time of charging depends only on the product of RC. Time of discharge t_w, is short (10^{-5} to 10^{-8} sec) and is also assumed constant. The output of spark erosion machining is given by

$$Q_v = K_Q \cdot q_v \cdot f \cdot E_i, \frac{mm^3}{min} \quad (4)$$

where K_Q - conversion factor; qv - specific output at the given conditions; $f - \frac{1}{t_c + t_w}$ - frequency; E_i - energy of one impulse

Card 2/7

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

in joules. The final form of this formula is:

$$Q_v = K_Q \cdot q_v \cdot \frac{CU_0^2}{2} \cdot \frac{(1-a)^2}{-RC \cdot \ln a + t_w} \qquad (7)$$

For comparison of erosion machines, drillings are made in hard steel (H_{RC} 60 ÷ 62) in pure paraffin and cylindrical copper electrodes are used, whose cross-section is given by

$$F_e = \frac{N}{h} \qquad (7a)$$

where h = 0.15 kVA/cm^2 and is a discharge density where N - input power in kVA. Test drillings on the machine EDA 35 were made under the above conditions and the results are given in tabulated form. It is advantageous to increase the supply voltage U_0 and to reduce the circuit resistance, but for safety and technical reasons U_0 varies from 100 to 300 V and R cannot be too small on account of the short circuit current. Fig. 4 gives the energy of one impulse E_i discharge frequency and erosion output as a function of a.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

22509
P/035/61/000/013/001/002
D203/D305

Some criteria...

These plots were made for the working grade IV on machine EDA 35. There Q_v is a maximum at a = 0.272 which corresponds to $U_{gr} \approx 160$ V. Once the machine is set, variations of this voltage will depend on the sensitivity and lag of the meohanism grinding the electrode. Consequently, short circuiting and variations of frequency can also occur. Good results were obtained by applying a suitably high frequency to the electrode vibrations. When there is no automatic regulation of the gap to satisfy the condition that U_{gr} = const. the operator controls the process by listening to the sound

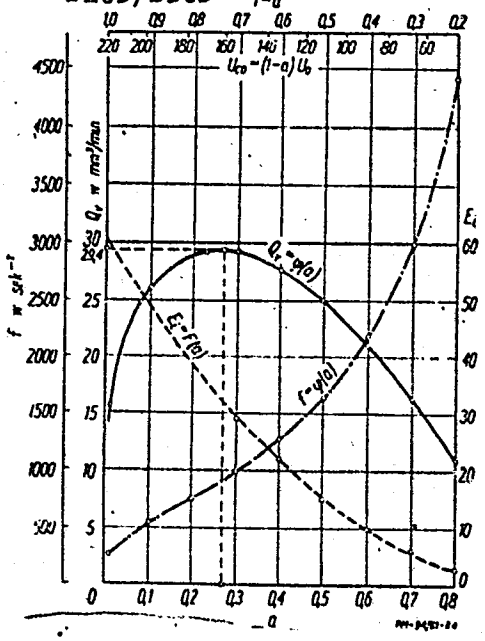

Fig. 4

Card 4/7

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

22509

Some criteria...

P/035/61/000/013/001/002
D203/D305

associated with it. This depends on keeping the frequency or the time of charging t_e approximately constant. Control on this basis can lead to inefficiencies, because for the given conditions of drilling, there is only one value of t_e which gives maximum output. In general, the output of erosion drilling is limited by the time of charging. There are two ways of reducing this time: a) By increasing the input voltage; b) By using many parallel charging circuits and discharging them in succession (this method is difficult to effectuate). The wear of electrode m_{v1} is measured as a percentage of the eroded volume of material of the electrode, for which copper is used for comparative purposes. The best conditions exist when this relative wear, m_v is as low as possible and decreases at higher working grades. This means that fewer accurate electrodes are needed when the article is being finished. Dimensional and shape accuracies also depend mainly on the electrode wear. Quantity S_b is the radial difference between the electrode and the eroded hole and z is the taper of the hole equal in depth to the electrode diameter. Both S_b and z are used as measures of shape accuracy. The article shows graphically the roughness R_z of

Card 5/7

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

22509

Some criteria... P/035/61/000/013/001/002
D203/D305

the eroded surface and the maximum roughness R_z max caused by single impulses. Roughness R_z max (depth) and its diameter both increase with the energy of discharge E or RC. Fig. 12 is an example of a full characteristic of an erosion machine. Since it pertains to given machined material and the electrode, one of the coordinates is R_z and not RC. Working grades by which the various roughnesses can be obtained are marked on the R_z scale. Spark erosion machines are only used for machining very hard materials, unmachinable by cutting tools. Wider use of the process would not be justified economically. There are 13 figures, 1 table and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION: Instytut obróbki skrawaniem, Kraków (Cracow Institute of Erosion Machining)

Card 6/7

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc. dr inz.

Problems of increasing the efficiency of metal machining. Mechanik 34 no.8:387-390 '61.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc. dr inz.

Problems of increasing the machining possibilities and improving the machinability of metals. Mechanik 34 no.9:466-469 '61.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc. dr inz.

Surface roughness in individual and mass spark discharges.
Mechanik 34 no.9:487 '61.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc. dr. inz.

The Machining Institute and its activities. Przegl mech 21 no.9/10:300-303. 10-25 My '62.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc. dr. inz.

Influence of mechanical machining upon the properties of the subtersurface layer. Przegl mech 21 no.13:394-397 10 Jl '62.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

SOLSKI, Pawel, doc. dr. inz.; BUCH, Alfred, doc. inz.; GORSKI, Eugeniusz, dr. inz.; KOCANDA, Stanislaw, dr. inz.; WOJCIK, Franciszek, doc., dr. inz.; PYTKO, Stanislaw, mgr. inz.; ROZNOWSKI, Tadeusz, mgr. inz.; KACZMAREK, Jan, doc. dr. inz.; KELLER, Wlodzimierz, mgr. inz.; CEGIELSKI, B., mgr. inz.; ZIEMBA, Stefan, prof. zwycz. dr. inz.; JANECKI, Janusz, pplk. dr. inz.

The 1st Problematic Conference on: "The role and research methods of the subtersurface layer." Summary of major voices in the discussion. Przegl mech 21 no.13:411-413 10 Jl '62.

1. Politechnika, Warszawa (for Solski, Keller). 2. Instytut Mechniki Precyzyjnej, Warszawa (for Buch). 3. Wojskowa Akademia Techniczna, Warszawa (for Kocanda, Ziemba and Janecki). 4. Politechnika, Szczecin (for Gorski). 5. Politechnika, Gdansk (for (Wojcik). 6. Akademia Gorniczo-Hutnicza, Krakow (for Pytko). 7. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa (for Roznowski). 8. Instytut Obrobki Skrawniem, Krakow (for Kaczmarek). 9. Politechnika Poznań (for Cegielski).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan

Development characteristics of the wool industry of the German Federal Republic according to its state in the year 1961. Mechanik 35 no.6:363 Je '62.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, doc.dr ins.

Concept and rating of machinability. Mechanik 35 no.9:477-480 '62.

1. Instytut Obrobki Skrawaniem, Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, prof. dr inz.; PRZYBYLSKI, Lucjan, mgr inz., st. asystent

Studies on the influence of thread overlap on the strength of screw couplings. Przegl mech 22 no. 12:365-367 25 Je '63.

1. Katedra Obrobki Metali, Politechnika Krakow.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, prof. dr inz.

"Outlines of metal maching" by Max Kronneberg. Vol. 2: "Multiedged machining (face milling, drilling)". Reviewed by Jan Kaczmarek, prof. dr inz. Przegl mech 22 no. 12:392 25 Je '63.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, prof. dr inz.; SUMMER-BRASON, Krzysztof, mgr inz.

Influence of the state of strain on the wear during grinding with loose abrasive. Przegl mech 23 no.13:358-360 10 Jl '64.

1. Head, Institute of Machining, Krakow, and Head, Department of Machining of Metals, Technical University, Krakow (for Kaczmarek)
2. Department of Machining of Metals, Technical University, Krakow (for Summer -Brason).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Jan, prof. dr inz.; POLANSKI, Zbigniew, dr inz., adiunkt; SUMMER-BRASON, Krzysztof, mgr inz., st. asystent

Results of studies on the time and technological utilization of the machine tool park as a reserve for increased production. Przegl mech 24 no.6:163-167 25 Mr '65.

1. Department of Metal Machining of the Krakow Technical University.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

GUMOWSKA, Maria; KACZMAREK, Jozef; SAPINSKI, Andrzej

A case of rheumatic fever in an unusual course, cerebral emboli and splenic rupture. Pediat. pol. 37 no.12:1331-1334 D '62.

1. Z Oddzialu Wewnetrznego: ordynator -- dr med. Z. Jezierska-Majewska i z Oddzialu Chirurgii Dziecieco: ordynator -- dr med. T. Suwalski Wojewodzkiego Szpitala Dzieciecego im. B. Krysiewicza w Poznaniu Dyrektor: dr med. M. Stabrowski.

(CEREBRAL EMBOLISM AND THROMBOSIS)
(RHEUMATIC FEVER) (SPLEEN)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, L.

"Kwestionariusz do ustalania zaburzeń mowy u dzieci" (Questionnaire for establishing speech disturbances of children), by L. Kaczmarek. Reported in New Books (Nowe Ksiazki), No. 15, August 1, 1955

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Marian

Complete dislocations of the knee joint. Chir. narz. ruchu ortop. polska 19 no.4:317-323 1954.

1. Z Woj. Instytutu Chirurgii Urazowej w Piekarach Slaskich.
(KNEE, dislocations,
complete)
(DISLOCATIONS,
knee, complete)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Marian

Hallux varus & its treatment. Chir. narz. ruchu 22 no.5:555-559 1957.

1. Z Kliniki Chirurgii Ortopedycznej Slaskiej Akademii Medycznej w Bytomiu. Kierownik: prof. M. Garlicki.
(HALLUX, surg.
hallux varus, technic (Pol))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

EXCERPTA MEDICA Sec 9 Vol 13/3 Surgery Mar 59

1449. (370) PERIARTHRITIS SCAPULO-HUMERALIS - Periarthritis humero-scapularis (zapalenie okolostawowe barku) - Kaczmarek M. and Tkaczuk H. Klin. Chir. Ortop. Śl. A.M., Bytom - CHIR. MARZAD. RUCHU 1958, 33/3 (281-285) Illus. 2

Results obtained in 21 cases are discussed. The best results were obtained by novocaine blocks of the stellate ganglion associated with active exercises.(IX, 19)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KUPRYSZEWSKI, Gotfryd; KACZMAREK, Marian

On aminoacid chlorophenyl esters. I. N-protected aminoacid 2,4,6-trichlorophenyl esters. Rocz chemii 35 no.4:931-936 '61.

1. Department of Organic Chemistry, Normal School, Gdansk.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, R.

New method of determining stains in potato flour or dextrin.

P. 119 (Przemsl spozywczy. Vol. 10, No. 3, Mar. 1956, Warszawa, Poland)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2, February 1958

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

POL/7-60-22-35/46

AUTHOR: Kaczmarek, Tadeusz

TITLE: A 1,000 km Flight is Possible.

PERIODICAL: Skrzydlata polska, 1960, No. 22, Supplement "Przegląd lotnictwa cywilnego" 1960, No. 11, pp. 1 - 2

TEXT: The author lists an example where a US pilot has flown a distance of 861.2 km in a single seater glider, and points out that a 1,000 km flight is possible. However, he points out that preparation for such flight can not be made in one day, and the APRL should take steps to encourage glider pilots to undertake this task.

Card 1/1

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, T., mgr inz.; ZMUDZINSKA, S., mgr inz.; TOBOLIK, M., inz.; MILENKIEWICZ, W., inz.

Application of sodium amalgam in the chemical industry. Chemik 16 no.1:10-13 Ja '63.

1. Instytut Chemii Nieorganicznej, Gliwice.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Tadeusz, mgr inz.; LISKOWACKI, Jaroslaw, mgr inz.

New Method of obtaining chlorine. Chemik 16 no.10:293-296 O '63.

1. Instytut Chemii Nieorganicznej, Gliwice.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Tadeusz, mgr inz.; LISKOWACKA, Anna, mgr inz.

Preparation of sodium sulfide from sodium amalgam. Chemik 16 [i.e. 17] no. 4:130-133 Ap '64.

1. Institute of Inorganic Chemistry, Gliwice.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2

KACZMAREK, Tadeusz, mgr inz.; DYLEWSKI, Rafal, mgr inz.; BYLICA, Irena, mgr inz.

Inpregnation of graphite electrodes applied in the electrolysis of aqueous solutions of alkali chlorides. Chemik 18 no.2:56-58 F '65.

1. Institute of Inorganic Chemistry, Gliwice.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000519820013-2"